

IN THE CLAIMS:

Please amend the claims as follows:

1. (Withdrawn) A method for diagnosing cancer by measuring DNA-dependent protein kinase activity in cells derived from a test subject.

2. (Withdrawn) A method for diagnosing cancer, the method comprising the steps of:

measuring DNA-dependent protein kinase activity in cells derived from a test subject;

measuring DNA-dependent protein kinase activity in cells derived from a healthy subject; and

comparing the DNA-dependent protein kinase activity in cells derived from the test subject and the DNA-dependent protein kinase activity in cells derived from the healthy subject.

3. (Withdrawn) The method for diagnosing cancer according to claim 1 or 2, wherein the cells are lymphoid cells.

4. (Withdrawn) A cancer diagnosis kit for diagnosing cancer by the method for diagnosing cancer according to any one of claims 1 to 3.

5. (Withdrawn) The cancer diagnosis kit for diagnosing cancer by the method for diagnosing cancer according to any one of claims 1 to 3, the kit comprising a peptide substrate which is phosphorylated by DNA-dependent protein kinase.
6. (Currently Amended) A method for determining cancer assessing a subject's susceptibility to cancer by measuring DNA-dependent protein kinase activity in cells derived from ~~a test~~ the subject to determine if the subject should be further screened for cancer, wherein the cancer is selected from the group consisting of breast cancer, uterine cancer, and head and neck cancer.
7. (Currently Amended) A method for determining cancer assessing a subject's susceptibility to cancer to determine if the subject should be further screened for cancer, the method comprising the steps of:
 - measuring DNA-dependent protein kinase activity in cells derived from a test subject;
 - measuring DNA-dependent protein kinase activity in cells derived from a healthy subject; and
 - comparing the DNA-dependent protein kinase activity in cells derived from the test subject and the DNA-dependent protein kinase activity in cells derived from the healthy subject, and
determining whether the test subject has an increased likelihood of developing cancer based upon the comparison of the DNA-dependent protein kinase activity of the test subject with the healthy subject, wherein a lower

DNA-dependent protein kinase activity for the test subject indicates an increased likelihood of developing cancer, and

wherein the cancer is selected from the group consisting of breast cancer, uterine cancer, and head and neck cancer.

8. (Original) The method for determining cancer susceptibility according to claim 6 or 7, wherein the cells are lymphoid cells.
9. (Withdrawn) A cancer susceptibility determination kit for determining cancer susceptibility by the method for determining cancer susceptibility according to any one of claims 6 to 8.
10. (Withdrawn) The cancer susceptibility determination kit for diagnosing cancer by the method for diagnosing cancer susceptibility according to any one of claims 6 to 9, the kit comprising a peptide substrate which is phosphorylated by DNA-dependent protein kinase.
11. (Currently Amended) A method for determining cancer assessing a subject's susceptibility to cancer to determine if the subject should be further screened for cancer, comprising:
measuring DNA-dependent protein kinase activity in cells derived from a test subject; and

Application Serial No.: 10/559,311

determining ~~cancer~~ susceptibility of the test subject to cancer based upon the measured DNA-dependent protein kinase activity, wherein the cancer is selected from the group consisting of breast cancer, uterine cancer, and head and neck cancer.